AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-85. (Cancelled)

86. (Currently Amended) A method for treating Parkinson's disease in a subject, comprising:

administering to a subject a therapeutically effective amount of a combination of creatine, a creatine phosphate or a creatine compound and a neuroprotective agent, such that Parkinson's disease in said subject is treated, wherein said neuroprotective agent is selected from the group consisting of inhibitors of glutamate excitotoxicity, 2,3 dimethoxy-5-methyl-6-decaprenyl benoquinone, nicotinamide, spin traps, growth factors, nitric oxide synthase inhibitors, cyclooxygenase 2 inhibitors, aspirin, ICE inhibitors, neuroimmunophilis, N-acetylcysteine, antioxidants, lipoic acid, eofactors, riboflavin, and CoQ10, wherein said creatine compound has the formula:

$$Z_{1}$$
 $C=X-A-Y$

and pharmaceutically acceptable salts thereof, wherein:

- a) Y is $-CO_2H$;
- b) A is selected from the group consisting of: C, CH, C₁-C₅alkyl, C₂-C₅alkenyl, C₂-C₅alkynyl, and C₁-C₅ alkoyl chain, each having 0-2 substituents which are selected independently from the group consisting of:
- 1) K, where K is selected from the group consisting of: C_1 - C_6 straight alkyl, C_2 - C_6 straight alkenyl, C_1 - C_6 straight alkoyl, C_3 - C_6 branched alkyl, C_3 - C_6 branched alkenyl, and C_4 - C_6 branched alkoyl, K having 0-2 substituents independently selected from the group consisting of: bromo, chloro, epoxy and acetoxy;
- -NH-M, wherein M is selected from the group consisting of: hydrogen, C₁-C₄ alkyl, C₂-C₄ alkenyl, C₁-C₄ alkoyl, C₃-C₄ branched alkyl, C₃-C₄ branched alkenyl, and C₄ branched alkoyl;

c) X is NR_1 , wherein R_1 is selected from the group consisting of:

- 1) hydrogen;
- 2) K where K is selected from the group consisting of: C₁-C₆ straight alkyl, C₂-C₆ straight alkenyl, C₁-C₆ straight alkoyl, C₃-C₆ branched alkyl, C₃-C₆ branched alkenyl, and C₄-C₆ branched alkoyl, K having 0-2 substituents independently selected from the group consisting of: bromo, chloro, epoxy and acetoxy;
- d) Z_1 and Z_2 are chosen independently from the group consisting of: -NHR₂, wherein R₂ is selected from the group consisting of:
 - 1) hydrogen;
- 2) K, where K is selected from the group consisting of: C_1 - C_6 straight alkyl; C_2 - C_6 straight alkenyl, C_1 - C_6 straight alkoyl, C_3 - C_6 branched alkyl, C_3 - C_6 branched alkoyl, K having 0-2 substituents independently selected from the group consisting of: bromo, chloro, epoxy and acetoxy;
 - a C₄-C₈ a-amino-carboxylic acid attached via the w-carbon; and
- B, wherein B is selected from the group consisting of: $-CO_2H$, -NHOH, $-SO_3H$, and $-NO_2$, wherein J is selected from the group consisting of: hydrogen, C_1 - C_6 straight alkyl, C_3 - C_6 branched alkyl, C_2 - C_6 -alkenyl, C_3 - C_6 -branched alkenyl, and aryl, wherein B is optionally connected to the nitrogen via a linker selected from the group consisting of: C_1 - C_2 alkeyl, C_2 alkeyl, and C_1 - C_2 alkoyl.

87-90. (Cancelled)

- 91. (Previously Presented) The method of claim 86 or 133, wherein said neuroprotective agent is a spin trap.
- 92. (Cancelled)

93. (Currently Amended) The method of claim 86 or 133, wherein said neuroprotective agent is a cofactor for normal cellular metabolism carnitine.

- 94. (Cancelled)
- 95. **(Previously Presented)** The method of claim 86 or 133, wherein said neuroprotective agent is an antioxidant.
- 96. (Cancelled)
- 97. (Cancelled)
- 98. (Previously Presented) The method of claim 86 or 133, wherein said neuroprotective agent is riboflavin.
- 99. (Previously Presented) The method of claim 86 or 133, further comprising administering at least one additional neuroprotective agent or creatine compound.
- 100. (Previously Presented) The method of claim 86 or 133, wherein said creatine compound is creatine.
- 101-107. (Cancelled)
- 108. (Currently Amended) A method for treating Huntington's disease in a subject, comprising:

administering to a subject a therapeutically effective amount of a combination of creatine, a creatine phosphate or a creatine compound and a neuroprotective agent, such that Huntington's disease is treated, wherein said neuroprotective agent is selected from the group consisting of inhibitors of glutamate excitotoxicity, 2,3 dimethoxy-5-methyl-6-decaprenyl benoquinone, nicotinamide, spin traps, growth factors, nitric oxide synthase inhibitors, cyclooxygenase 2 inhibitors, aspirin, ICE inhibitors, neuroimmunophilis, N-acetylcysteine, antioxidants, lipoic acid, eofactors, riboflavin, and CoQ10, wherein said creatine compound has the formula:

$$Z_1$$
 $C = X - A - Y$

and pharmaceutically acceptable salts thereof, wherein:

- a) -CO₂H;
- b) A is selected from the group consisting of: C, CH, C₁-C₅alkyl, C₂-C₅alkenyl, C₂-C₅alkynyl, and C₁-C₅ alkoyl chain, each having 0-2 substituents which are selected independently from the group consisting of:
- 1) K, where K is selected from the group consisting of: C_1 - C_6 straight alkyl, C_2 - C_6 straight alkenyl, C_1 - C_6 straight alkoyl, C_3 - C_6 branched alkyl, C_3 - C_6 branched alkenyl, and C_4 - C_6 branched alkoyl, K having 0-2 substituents independently selected from the group consisting of: bromo, chloro, epoxy and acetoxy;
- 2) -NH-M, wherein M is selected from the group consisting of: hydrogen, C₁-C₄ alkyl, C₂-C₄ alkenyl, C₁-C₄ alkoyl, C₃-C₄ branched alkyl, C₃-C₄ branched alkenyl, and C₄ branched alkoyl;
 - c) X is NR_1 , wherein R_1 is selected from the group consisting of:
 - 1) hydrogen;
- 2) K where K is selected from the group consisting of: C_1 - C_6 straight alkyl, C_2 - C_6 straight alkenyl, C_1 - C_6 straight alkoyl, C_3 - C_6 branched alkyl, C_3 - C_6 branched alkoyl, K having 0-2 substituents independently selected from the group consisting of: bromo, chloro, epoxy and acetoxy;
- d) Z_1 and Z_2 are chosen independently from the group consisting of: -NHR₂, wherein R₂ is selected from the group consisting of:
 - 1) hydrogen;

2) K, where K is selected from the group consisting of: C_1 - C_6 straight alkyl; C_2 - C_6 straight alkenyl, C_1 - C_6 straight alkoyl, C_3 - C_6 branched alkyl, C_3 - C_6 branched alkenyl, and C_4 - C_6 branched alkoyl, K having 0-2 substituents independently selected from the group consisting of: bromo, chloro, epoxy and acetoxy;

- 3) a C₄-C₈ a-amino-carboxylic acid attached via the w-carbon; and
- B, wherein B is selected from the group consisting of: $-CO_2H$, -NHOH, $-SO_3H$, and $-NO_2$, wherein J is selected from the group consisting of: hydrogen, C_1 - C_6 -straight alkyl, C_3 - C_6 -branched alkyl, C_2 - C_6 -alkenyl, C_3 - C_6 -branched alkenyl, and aryl, wherein B is optionally connected to the nitrogen via a linker selected from the group consisting of: C_1 - C_2 alkyl, C_2 alkenyl, and C_1 - C_2 alkoyl.

109-112. (Cancelled)

113. (Previously Presented) The method of claim 108 or 134, wherein said neuroprotective agent is a spin trap.

114. (Cancelled)

115. (Currently Amended) The method of claim 108 or 134, wherein said neuroprotective agent cofactor is a cofactor for normal cellular metabolism carnitine.

116. (Cancelled)

117. (Previously Presented) The method of claim 108 or 134, wherein said neuroprotective agent is an antioxidant.

118. (Cancelled)

- 119. (Cancelled)
- 120. (Previously Presented) The method of claim 117, wherein said neuroprotective agent is riboflavin.

121. **(Previously Presented)** The method of claim 108 or 134, further comprising administering at least one additional neuroprotective agent or creatine compound.

122. **(Previously Presented)** The method of claim 108 or 134, wherein said creatine compound is creatine.

123-132. (Cancelled)

133. (Currently Amended) A method for treating Parkinson's disease in a subject, comprising:

administering to a subject a therapeutically effective amount of a combination of creatine, a creatine phosphate or a creatine compound and a neuroprotective agent, such that Parkinson's disease in said subject is treated, wherein said neuroprotective agent is selected from the group consisting of inhibitors of glutamate excitotoxicity, 2,3 dimethoxy-5-methyl-6-decaprenyl benoquinone, nicotinamide, spin traps, growth factors, nitric oxide synthase inhibitors, cyclooxygenase 2 inhibitors, aspirin, ICE inhibitors, neuroimmunophilis, N-acetylcysteine, antioxidants, lipoic acid, eofactors, riboflavin, and CoQ10, wherein said creatine compound is selected from the group consisting of:

pharmaceutically acceptable salts thereof.

134. (Currently Amended) A method for treating Huntington's disease in a subject, comprising:

administering to a subject a therapeutically effective amount of a combination of creatine, a creatine phosphate or a creatine compound and a neuroprotective agent, such that Huntington's disease is treated, wherein said neuroprotective agent is selected from the group consisting of inhibitors of glutamate excitotoxicity, 2,3 dimethoxy-5-methyl-6-decaprenyl benoquinone, nicotinamide, spin traps, growth factors, nitric oxide synthase inhibitors, cyclooxygenase 2 inhibitors, aspirin, ICE inhibitors, neuroimmunophilis, N-acetylcysteine,

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antioxidants, lipoic acid, eofactors, riboflavin, and CoQ10, wherein said creatine compound is selected from the group consisting of:

acceptable salts thereof.